

Form 1449 (Modified)

Atty Docket No.:

IMM1P060.RE

Application No.:

09/393,998

Information Disclosure Statement By Applicant

Applicant:

C. Culver

Filing Date:

9/8/99

Group:

2675

(Use Several Sheets if Necessary)

U.S. Patent Documents

Examiner Initial	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
<i>Chen</i>	3,919,691	11/11/75	Noll	340	172.5	5/26/71
<i>Chen</i>	4,131,033	12/26/78	Wright et al.	74	553	2/18/77
	4,398,889	08/16/83	Lam et al.	434	45	6/8/81
	4,477,043	10/16/84	Repperger	244	223	12/15/82
	4,489,304	12/18/84	Hayes	338	128	7/22/83
	4,560,983	12/24/85	Williams	340	825	9/17/82
	4,604,016	8/5/86	Joyce	414	7	8/3/83
	4,692,756	9/8/87	Clark	340	709	7/5/84
	4,706,294	11/10/87	Ouchida	381	109	6/10/86
	4,712,101	12/8/87	Culver	340	710	12/4/84
	4,724,715	2/16/88	Culver	74	471R	4/30/86
	4,782,327	11/1/88	Kley et al.	340	365	1/2/85
	4,794,384	12/27/88	Jackson	340	710	4/9/87
	4,795,296	1/3/89	Jau	414	5	11/17/86
	4,800,721	01/31/89	Cemenska et al.	60	393	2/13/87
	4,823,634	4/25/89	Culver	74	471XY	11/3/87
	4,861,269	8/29/89	Meenen, Jr.	434	45	3/30/88
	4,868,549	9/19/89	Affinito et al.	340	710	
	4,935,728	6/19/90	Kley	340	709	11/20/87
	4,949,119	8/14/90	Moncrief et al.	364	578	1/12/89
	4,962,448	10/9/90	DeMaio et al.	364	146	9/30/88
	4,983,901	1/8/91	Lehmer	318	685	4/21/89
	5,007,300	4/16/91	Siva	74	471	1/22/90
	5,044,956	09/03/91	Behensky et al.	434	45	1/12/89
	5,095,303	3/10/92	Clark et al.	340	710	
	5,103,404	4/7/92	McIntosh	318	568.22	12/20/89
	5,107,080	4/21/92	Rosen	200	6A	12/1/89
	5,142,931	9/1/92	Menahem	74	471XY	2/14/91
	5,146,566	9/8/92	Hollis, Jr. et al.	395	275	5/29/91
	5,184,319	2/2/93	Kramer	364	806	2/2/90

Examiner:

David Chen

Date Considered:

10/12/97

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449 (Modified)

Information Disclosure Statement By Applicant
(Use Several Sheets if Necessary)

Atty Docket No.: IMM1P060.RE

Application No.: 09/393,998

Applicant: C. Culver

Filing Date: 9/8/99

Group: 2675

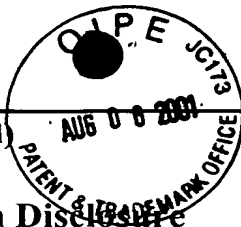
RECEIVED
AUG 08 2001
Technology Center 2600

U.S. Patent Documents

Examiner Initial	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
<i>W</i>	5,185,561	2/9/93	Good et al.	318	432	7/23/91
	5,186,629	2/16/93	Rohen	434	114	8/22/91
	5,193,963	3/16/93	McAfee et al.	414	5	10/31/90
	5,203,563	4/20/93	Loper, III	273	148B	3/21/91
	5,220,260	6/15/93	Schuler	318	561	10/24/91
	5,223,776	6/29/93	Radke et al.	318	568.1	12/31/90
	5,235,868	8/17/93	Culver	74	471XY	10/2/91
	5,237,327	8/17/93	Saitoh et al.	341	176	11/14/91
	5,280,276	1/18/94	Kwok	345	167	7/10/92
	5,284,330	2/8/94	Carlson	267	140.14	6/18/92
	5,296,846	3/22/94	Ledley	345	161	10/5/92
	5,296,871	3/22/94	Paley	345	163	7/27/92
	5,313,230	5/17/94	Venolia et al.	345	163	7/24/92
	5,317,336	5/31/94	Hall	345	164	6/23/92
	5,381,080	1/10/95	Schnell et al.	318	566	2/18/93
	5,396,266	3/7/95	Brimhall	345	161	6/8/93
	5,405,152	4/11/95	Katanics et al.	273	438	6/8/93
	5,414,337	5/9/95	Schuler	318	561	6/11/93
	5,457,479	10/10/95	Cheng	345	163	6/13/94
	5,473,344	12/5/95	Bacon et al.	345	163	1/6/94
	5,477,237	12/19/95	Parks	345	156	7/14/94
	5,491,477	2/13/96	Clark et al.	341	20	9/13/93
	5,492,312	2/20/96	Carlson	267	140	4/17/95
	5,512,919	4/30/96	Araki	345	156	3/30/93
	5,513,100	4/30/96	Parker et al.	364	167.01	6/10/93
	5,543,821	8/6/96	Marchis et al.	345	167	7/20/94
	5,583,407	12/10/96	Yamaguchi	318	551	12/27/94
	5,587,937	12/24/96	Massie et al.	364	578	4/25/95
	5,623,582	4/22/97	Rosenberg	395	99	7/14/94
	5,627,531	5/6/97	Posso et al.	341	22	9/30/94

Examiner: *David Clow* Date Considered: *10/19/01*

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty Docket No.: IMM1P060.RE	Application No.: 09/393,998
	Applicant: C. Culver	
	Filing Date: 9/8/99	Group: 2675

RECEIVED
AUG 08 2001
Technology Center 2800

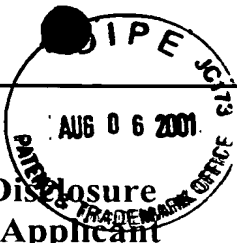
U.S. Patent Documents

Examiner Initial	Patent No.	Date	Patentee	Class	Sub- Class	Filing Date
Chen	5,629,594	5/13/97	Jacobus et al.	318	568.11	10/16/95
	5,642,469	6/24/97	Hannaford	395	99	11/3/94
	5,643,087	7/1/97	Marcus et al.	463	38	7/29/94
	5,666,473	9/9/97	Wallace	345	420	10/8/92
	5,691,747	11/25/97	Amano	345	167	12/19/94
	5,709,219	01/20/98	Chen et al.	128	782	08/01/96
	5,714,978	02/02/98	Yamanaka et al.	345	157	12/05/95
	5,721,566	2/24/98	Rosenberg et al.	345	161	6/9/95
	5,724,106	3/3/98	Autry et al.	348	734	3/27/96
	5,734,373	3/31/98	Rosenberg et al.	345	161	12/1/95
	5,742,278	4/21/98	Chen	345	156	11/1/95
	5,769,640	6/23/98	Jacobus et al.	434	262	8/10/95
	5,790,108	8/4/98	Salcudean et al.	345	184	10/23/92
	5,816,823	10/6/98	Naimark et al.	434	307	10/9/96
	5,821,920	10/13/98	Rosenberg et al.	345	156	3/28/97
	5,841,423	11/24/98	Carrol, Jr. et al.	345	168	12/26/95
	5,841,428	11/24/98	Jaeger et al.	345	184	9/20/96
	5,889,670	3/30/99	Schuler et al.	364	186	1/11/96
	6,004,134	12/21/99	Marcus et al.	434	45	5/19/94
	6,104,382	8/15/00	Martin et al.	345	161	4/10/98
6,256,011	7/3/01	Culver	345	157	12/1/98	

Examiner: Chen	Date Considered: 10/19/01
--------------------------	-------------------------------------

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449 (Modified) Information Disclosure Statement By Applicant <i>(Use Several Sheets if Necessary)</i>	Atty Docket No.: IMM1P060.RE	Application No.: 09/393,998
	Applicant: C. Culver	
	Filing Date: 9/8/99	Group: 2675



RECEIVED
 AUG 08 2001
 Technology Center 2600

Other Documents

Examiner Initial	Author, Title, Date, Place (e.g. Journal) of Publication
<i>Chow</i>	Schmult, Brian et al., "Application Areas for a Force-Feedback Joystick," ASME 1993, DSC-Vol. 49, pp. 47-54.
<i>Chow</i>	Howe, Robert D., "Task Performance with a Dextrous Teleoperated Hand System," Proceedings of SPIE, November 1992, Vol. 1833, pp. 1-9.
<i>Chow</i>	Russo, Massimo Andrea, "The Design and Implementation of a Three Degree-of-Freedom Force Output Joystick," Department of Mechanical Engineering, May 11, 1990, pp. 9-40 & 96 & 97.
<i>Chow</i>	Adachi, Yoshitaka et al., "Sensory Evaluation of Virtual Haptic Push-Buttons," Technical Research Center Suzuki Motor Corporation.
<i>Chow</i>	Su, S. Augustine et al., "The Virtual Panel Architecture: A 3D Gesture Framework," IEEE 1993.
<i>Chow</i>	Rosenberg, Louis B., Perceptual Design of A Virtual Rigid Surface Contact, Center for Design Research, Stanford University, Armstrong Laboratory, AL/CF-TR-1995-0029, April 1993.
<i>Chow</i>	Ellis, R.E. et al., "Design and Evaluation of a High-Performance Prototype Planar Haptic Interface," ASME December 3, 1993, DSC-Vol. 49, pp. 55-64.
<i>Chow</i>	Adlestein, Bernard D. et al., "Design and Implementation of a Force Reflecting Manipulandum for Manual Control Research," 1992, pp. 1-24.
<i>Chow</i>	Adelstein Bernard D. et al., "A High Performance Two Degree-of-Freedom Kinesthetic Interface," Massachusetts Institute of Technology 1992, pp. 108-112.
<i>Chow</i>	Minsky, Margaret et al., "Feeling and Seeing: Issues in Force Display," ACM 1990, pp. 235-242.
<i>Chow</i>	Batter, James J. et al., "Grobe-1: A Computer Display to the Sense of Feel," pp. TA-4-188-TA-4-192.
<i>Chow</i>	Gotow, J.K., et al., "Perception of Mechanical Properties at the Man-Machine Interface," IEEE 1987, pp. 688-689.
<i>Chow</i>	Atkinson, William D. et al, "Computing with Feeling," Comput. & Graphics, Vol. 2, No. 2-E, pp. 97-103.
<i>Chow</i>	Wiker, Steven F. et al., "Development of Tactile Mice for Blind Access to Computers: Importance of Stimulation Locus, Object Size, and Vibrotactile Display Resolution," Proceedings of the Human Factors Society 35th Annual Meeting 1991, pp. 708-712.
<i>Chow</i>	Iwata, Hiroo, "Artificial Reality with Force-feedback: Development of Desktop Virtual Space with Compact Master Manipulator," Computer Graphics, Vol. 24, No. 4, 1990, pp.165-170.
<i>Chow</i>	Hirota, Koichi et al., "Development of Surface Display," IEEE 0-7803-1363-1, 1993, pp. 256-262.
<i>Chow</i>	Akamatsu, M. et al., "Multimodal Mouse: A Mouse-Type Device with Tactile and Force Display," Presence, Vol. 3, No. 1, 1994, pp. 73-80.
<i>Chow</i>	Millman, P. et al., "Design of a Four Degree-of-Freedom Force-Reflecting Manipulandum with a Specified Force/Torque Workspace," IEEE CH2969-4, 1991, pp. 1488-1492.
<i>Chow</i>	Brooks, F. et al., "Project GROPE-- Haptic Displays for Scientific Visualization," Computer Graphics, Vol. 24, No. 4, 1990, pp. 177-185.
<i>Chow</i>	Kelley, A. J. et al., "MagicMouse: Tactile and Kinesthetic Feedback in the Human-Computer Interface using an Electromagnetically Actuated Input/Output Device," Dept. of Elec. Eng., Univ. of Brit. Columbia, 1993, pp. 1-27.

Examiner: <i>Chow</i>	Date Considered: 10/19/01
---------------------------------	-------------------------------------

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

